


Fig. 1

The block diagram illustrates the internal components of a portable electronic device 10. At the top, a THUMB WHEEL ENCODER 13 is connected to an I/O PORT 60 via lines A, B, and TRAN. The I/O PORT 60 is also connected to a TONE GENERATOR. The TONE GENERATOR is connected to a speaker. The I/O PORT 60 is connected to a PROCESSOR 44. The PROCESSOR 44 is connected to an INTERRUPT HANDLER 66, which is connected to an INTERRUPT GENERATOR 64. The INTERRUPT GENERATOR 64 is connected to the PROCESSOR 44. The PROCESSOR 44 is connected to a DISPLAY 14, a DISPLAY DRIVER 46, a BAR CODE READER 22, an OPERATOR INPUT DEVICE 18, MEMORY 50, a PCMCIA SLOT 30, and a POWER SUPPLY 52. The PROCESSOR 44 is also connected to a TRANSCEIVER 40, which is connected to an antenna 28.

10 

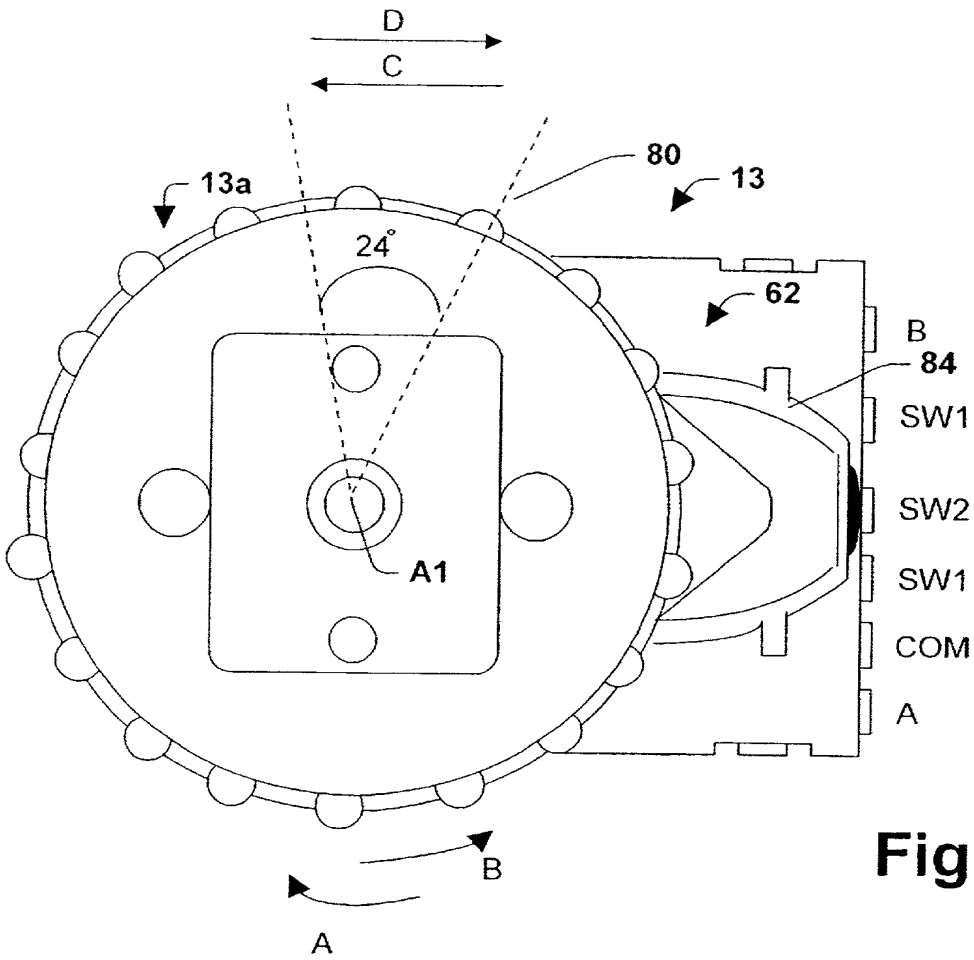


Fig. 3

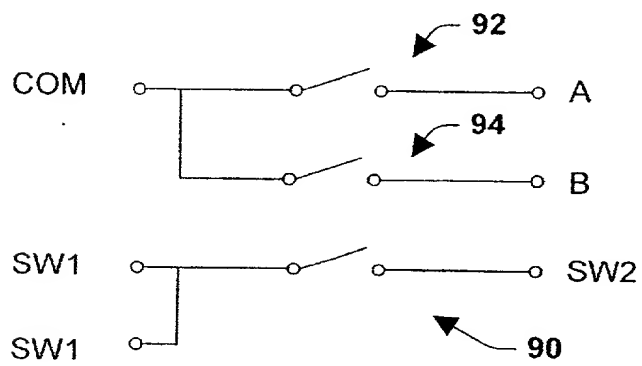
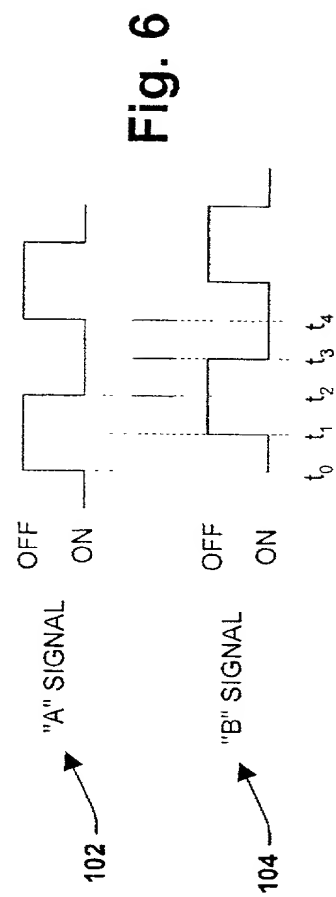
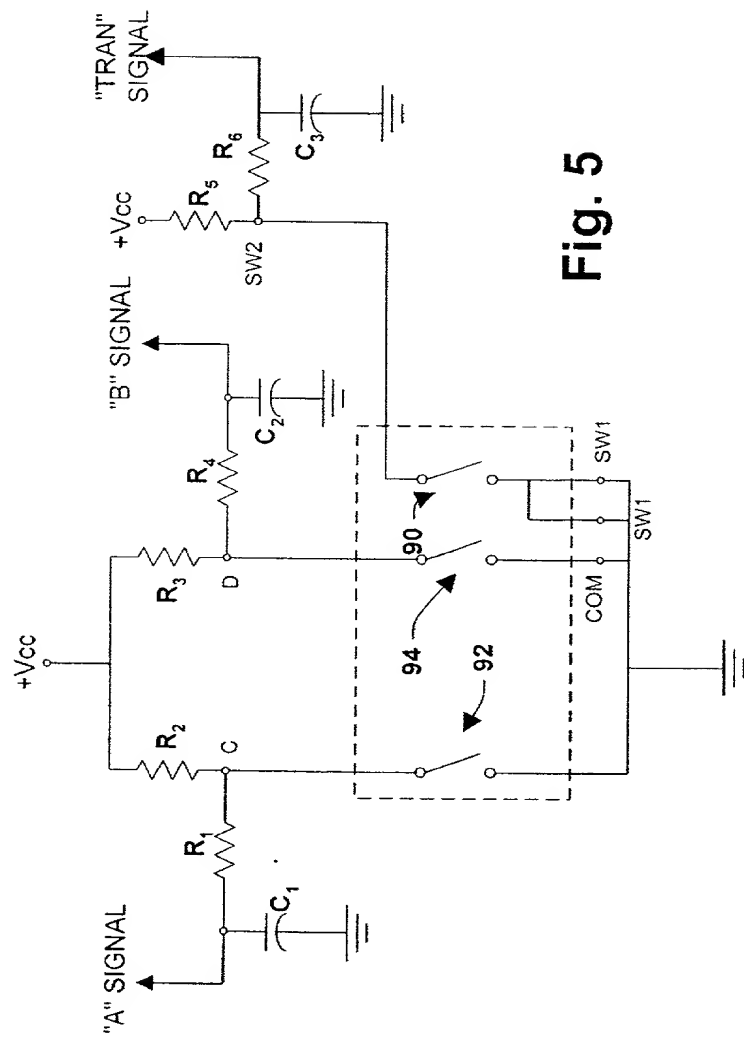


Fig. 4



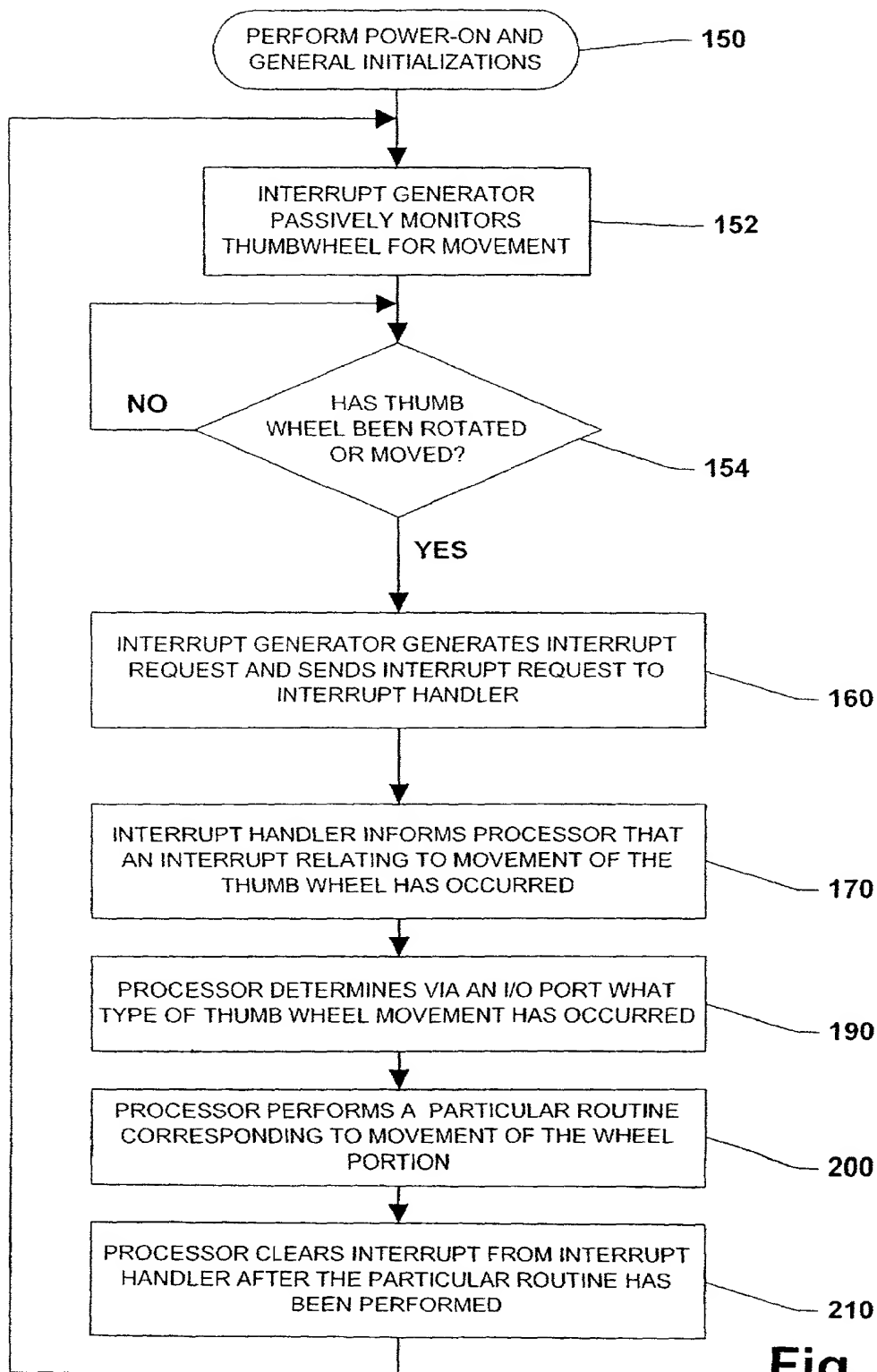


Fig. 7

FUNCTION ₁
FUNCTION ₂
FUNCTION ₃
FUNCTION ₄
FUNCTION ₅
•
•
•
FUNCTION _N

Fig. 8A

FUNCTION ₁
FUNCTION ₂
FUNCTION ₃
FUNCTION ₄
FUNCTION ₅
•
•
•
FUNCTION _N

Fig. 8D

FUNCTION ₁
FUNCTION ₂
FUNCTION ₃
FUNCTION ₄
FUNCTION ₅
FUNCTION _N

Fig. 8B

FUNCTION _{5i}
FUNCTION _{5ii}
FUNCTION _{5iii}
FUNCTION _{5iv}
FUNCTION _{5v}
•
•
•
FUNCTION _{5N}

Fig. 8E

FUNCTION _{2i}
FUNCTION _{2ii}
FUNCTION _{2iii}
FUNCTION _{2iv}
FUNCTION _{2v}
•
•
•
FUNCTION _{2N}

Fig. 8C